

## CLAIMS

1. A method for processing brittle material by irradiating light from a light source serving as a heating source onto the brittle material and moving  
5 an irradiation position of the light along a predetermined line,

wherein an absorptance of the light irradiated onto the brittle material to be processed is set in advance,

wherein the absorptance of a plate-shaped sample of a material that is the same as the brittle material to be processed when irradiated by a light  
10 of the same wavelength as that irradiated on the brittle material is calculated, using that set value of absorptance, and a thickness of the sample, and

wherein a wavelength of light for the absorptance of the processed brittle material is selected, based on that calculated value of absorptance,  
15 and actual absorptance data obtained by actually irradiating a light onto the sample.

2. The method for processing brittle material according to claim 1,  
wherein the sample is irradiated in sequence by a plurality of light  
20 sources with mutually different wavelengths,

wherein the actual absorptance data of the sample is calculated from a measured value of transmitted light intensity at each wavelength, and

wherein the wavelength of the light is selected using this actual data.

25 3. The method for processing brittle material according to claim 1 or claim 2,

wherein a reflective layer is formed on a rear side of a light irradiating position of the processed brittle material.

30 4. The method for processing brittle material according to claim 1 or

claim 2,

wherein when the brittle material is placed on a table and processed, a reflective layer of that table on which the material is placed is formed on a surface.

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5. An apparatus for processing brittle material by irradiating light from a light source serving as a heating source onto the brittle material and moving an irradiation position of the light along a predetermined line, comprising;

10 a plurality of light sources emitting mutually different wavelengths of light,

a scanning means for transporting these light sources relative to the brittle material,

15 an absorptance calculating means for calculating, using a set value of absorptance set in advance and a thickness of a sample, an absorptance of the sample when irradiated by a light of the same wavelength as that irradiated on the brittle material,

20 a light intensity measuring means for measuring intensity of transmitted light when the sample is irradiated by light from each light source,

an actual data calculating means for calculating actual absorptance data of the sample from the measured value of the transmitted light intensity at each wavelength as measured by the light intensity measuring means, and

25 a selecting means for selecting a wavelength of light that is appropriate for the absorptance of the brittle material to be processed based on the actual absorptance data and the calculated results of absorptance, and

30 wherein a light source emitting light of this selected light source is selected from the plurality of light sources to process the brittle material.